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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/693,228

10/24/2003

Michael Shappell

306083.01

2294

69316 7590 07/18/2011

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EXAMINER

SONG, DAEHO D

ART UNIT

PAPER NUMBER

2172

NOTIFICATION DATE DELIVERY MODE

07/18/2011

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/693,228	Applicant(s) SHAPPELL ET AL.	
	Examiner DAEHO SONG	Art Unit 2172	

-- The **MAILING DATE** of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 25 May 2011.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-8, 10-12, 15-17 and 20-24 is/are pending in the application.

 4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-8, 10-12, 15-17 and 20-24 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ ~~Notice of Draftsperson's Patent Drawing Review (PTO-940)~~

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date attached.

4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____

Applicant's Response

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/25/2011 has been entered.

In Applicant's Response to RCE dated 05/25/2011, Applicant amended Claims 1, 2, 6, 10-12, 15, 17, and 20-24, canceled Claim 19, and argued against all rejections previously set forth in the Office Action dated 03/17/2011.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-8, 10-12, 15-16, and 23-24 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

In summary, Claims 1 and 15 recites a “*computer storage medium*” comprising computer-executable instructions that have program codes for performing various functions. Since the recited computer storage medium is not defined in the Specification of instant application and it typically covers forms of non-transitory tangible media and transitory propagating signals *per se*, one of ordinary skill in the art at the time the invention was made would have interpreted this definition of “*computer storage medium*” to **include transitory propagating signals** and carrier waves that are used to transmit information to electronic devices.

Thus, the “*computer storage medium*” may comprise only propagation signals and carrier waves that are used to transmit information to electronic devices. Thus, the recited “*computer storage medium*” is not a process, a machine, a manufacture or a composition of matter.

Accordingly, Claims 1-8, 10-12, 15-16, and 23-24 fail to recite statutory subject matter as defined in 35 U.S.C. 101.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-2, 5-8, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson (U.S. Patent Application Pub. No. 2003/0028610) in view of Block et al. (hereinafter Block): U.S. Patent Application Pub. No. 2003/0050976, and further in view of Aboulhosn et al. (hereinafter Aboulhosn): U.S. Patent Application Pub. No. 2004/0068524 and Bonura et al. (hereinafter Bonura): U.S. Patent No. 6,670,970.

Claim 1:

Pearson expressly teaches:

A computer storage medium comprising computer executable code that is executable by a computing device to cause to be displayed a graphical user interface, the graphical user interface comprising:

a group space associated with a first member of a group and at least one other member of the group, the group space comprising a first display area for providing an appearance of a shared file location which the group member and the at least one other member of the group may access (fig. 9; [0051]: a group space comprising a shared files pane 374/a first display area that presents a shared file in which another group member may access);

a first control located in a second display area selectable by the first member to select at least one task associated with the group space and to activate one or more operations with respect to files displayed in the first display area, such that the at least one other member of the group is automatically shown the result of the one or more operations performed with respect to the files displayed in the first display area (fig. 9.; [0008][0011][0051]: a directory content pane 372/a second display area in which a task is selectable with respect to files and activated with an uploading operation, such that the result of the uploading operation is shown with respect to the files displayed in the shared files pane 374/first display area); and

Pearson fails to disclose:

a selectable indicator for visually presenting a group member list to the first member of the group, the group member list including a plurality of group members, an indication field of a role for each of the plurality of group members;

a second control located in the second display area, the second control including a drop-down menu selectable by the first member of the group for defining one of a plurality of roles for the at least one other member of the group.

Block expressly teaches:

a selectable indicator for visually presenting a group member list to the first member of the group, the group member list including a plurality of group members, an indication field of a role for each of the plurality of group members (figs. 8 & 10; [0132]-[0135]: displaying a group member's list including specified roles);

a second control located in the second display area, the second control including a drop-down menu selectable by the first member of the group for defining one of a plurality of roles for the at least one other member of the group (fig. 18; [0150]: displaying a drop-down selectable menu for defining a role for a group member).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson, to include: *a selectable indicator for visually presenting a group member list to the first member of the group, the group member list including a plurality of group members, an indication field of a role for each of the plurality of group members; a second control located in the*

second display area, the second control including a drop-down menu selectable by the first member of the group for defining one of a plurality of roles for the at least one other member of the group, for the purpose of providing Pearson with the benefit of the ability for each member of a group to classify the access level of sharing depending upon the role of the person associated with the particular community, as taught in Block.

Pearson and Block fail to disclose:

one or more indications reflecting whether each of the plurality of group members is currently online.

Aboulhosn expressly teaches:

one or more indications reflecting whether each of the plurality of group members is currently online ([0015]: a list of group members reflecting whether the group member is currently online or offline).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson and Block, to include: *one or more indications reflecting whether each of the plurality of group members is currently online*, for the purpose of providing Pearson and Block with the benefit of getting up-to-date information on the connectivity in the file sharing system, as taught in Aboulhosn.

Pearson, Block, and Aboulhosn fail to disclose:

a visual indication that identifies instances of content as new content based on the instances of content being added or changed within a predetermined period of time, and a third control allowing selection by the first member of the group of the predetermined period of time to be used to identify the instances of content as new content.

Bonura expressly teaches:

a visual indication that identifies instances of content as new content based on the instances of content being added or changed within a predetermined period of time, and a third control allowing selection by the first member of the group of the predetermined period of time to be used to identify the instances of content as new content (figs. 4, 6 and 7(a)-7(d); col. 3 lines 40-55; col. 5 lines 41-67; col. 6 lines 1-28; visual indication of identifying instances of new content within a predetermined period of time by means of changing information in window from a translucent state to an opaque state, and setting the time period to any desired value by user).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson, Block and Aboulhosn, to include: *a visual indication that identifies instances of content as new content based on the instances of content being added or changed within a predetermined period of time, and a third control allowing selection by the first member of the group of the predetermined period of time to be used to identify the instances of*

content as new content, for the purpose of providing Pearson, Block, and Aboulhosn with the benefit of recognizing relevant information to the user intuitively during relatively short intervals, as taught in Bonura.

Pearson further teaches:

Claim 2. The computer storage medium as in claim 1, wherein the group space is configured to facilitate communication among the plurality of group members via a peer-to-peer network ([0027]: communicating through the peer-to-peer network).

Claim 5:

The computer storage medium as in claim 1, wherein the group space is comprised of a subfolder that is displayed in a folder view (fig. 9.: the folder named "Arrivals" is a subfolder which is displayed within the folder of "OthNet").

Claim 6. The computer storage medium as in claim 1, wherein the group space is configured to enable the first member of the group to perform file system operations with respect to files in the group space on the basis of permissions being granted to the first member of the group ([0045]: "permission to share" is required by the file sharing administrator/the first user).

Claim 7. The computer storage medium as in claim 1, wherein said group space is

assigned a unique identifier that is made available to the at least one other member
([0045]: generating a unique identifier for use by the host computers/group members of the file-sharing system).

Claim 8. The computer storage medium as in claim 7, wherein each of the group members having access to said group space is assigned a unique identifier that is made available to the other group members ([0045]: a unique identifier in identifying files to be shared among the host computers/group members).

Claim 10. The computer storage medium as in claim 1, wherein the graphical user interface further comprises a third control located in the second display area, the third control being selectable by the first member for adding at least one additional group member ([0028]: adding a new host computer/new member to the host list of the given host computer/first member).

Claim 11. The computer storage medium as in claim 1, wherein the group space associated with the first member is further configured to cause a version of the group space associated with the at least one other member of the group to be changed in appearance in response to a change to the group space associated with the first member (figs. 43 & 47; [0065]: in response to change to the group space associated with the host computer/first member by moving a file to the shared file list 374 in fig. 47, displaying a version of the group space including the moved file in the directory content

pane 372 in fig. 47 with a checked checkbox to indicate the status of the file as being available for sharing by other members of the group).

Claim 12. The computer storage medium as in claim 1, wherein the graphical user interface further comprises an indication of a file dropped by the first member into the group space whereby a notification corresponding to the indication of the file is automatically transmitted to the at least one other member of the group ([0035]: indication of file receiving from a host computer/first member through a checklist used to keep track of requested file by other members).

2. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson in view of Block and Aboulhosn, and further in view of Riddle: U.S. Patent Application Pub. No. 2003/0187924.

Claim 15:

Pearson expressly teaches:

A computer storage medium comprising computer executable code that is executable by a computing device to cause to be displayed a graphical user interface, the graphical user interface comprising:

the first shared space display area includes at least one visible task item selectable by the first member of the group to activate an operation to be performed with respect to the first shared space display area (fig. 9; [0051]: the sharing view area 370 in fig. 9, which is the first shared space display area, includes multiple task items selectable by the host/first member of the group to activate an operation to be performed, such as selecting and opening a folder);

Pearson fails to disclose:

a selectable indicator for visually presenting a list of members of the group to the first member of the group, the list of members of the group including an indication field of a role for each member in the list of members of the group; a control for selecting one of a plurality of roles for the at least one other online member of the group.

Block expressly teaches:

a selectable indicator for visually presenting a list of members of the group to the first member of the group, the list of members of the group including an indication field of a role for each member in the list of members of the group (figs. 8 & 10; [0132]-[0135]: displaying a group member's list including specified roles),

a control for selecting one of a plurality of roles for the at least one other online member of the group (fig. 18; [0150]: selecting a role from a drop-down selectable menu for the other members of the group).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson, to include: *a selectable indicator for visually presenting a list of members of the group to the first member of the group, the list of members of the group including an indication field of a role for each member in the list of members of the group; a control for selecting one of a plurality of roles for the at least one other online member of the group, for the purpose of providing Pearson with the benefit of the ability for each member of a group to classify the access level of sharing depending upon the role of the person associated with the particular community, as taught in Block.*

Pearson in view of Block fails to disclose:

the list of members of the group also including indicia reflecting, for each member of the group, whether the member of the group is currently connected to a network associated with the group.

Aboulhosn expressly teaches:

the list of members of the group also including indicia reflecting, for each member of the group, whether the member of the group is currently connected to a network associated with the group ([0015]: a list of group members including a notification whether the group member is currently online).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson and Block, to include: *the list of members of the group also including indicia reflecting, for each member of the group, whether the member of the group is currently connected to a network associated with the group*, for the purpose of providing Pearson and Block with the benefit of getting up-to-date information on the connectivity in the file sharing system, as taught in Aboulhosn.

Pearson in view Block and Aboulhosn fails to disclose:

a first shared space display area for a first member of a group and at least one other member of the group, the first shared space display area being configured to receive a drop of a file icon and further being configured to, responsive to the drop of the file icon in the first shared space display area, cause the file icon to become visible in a different graphical user interface associated with the at least one other member of the group wherein a shared file associated with the file icon may be retrieved by selecting file icon.

Riddle expressly teaches:

a first shared space display area for a first member of a group and at least one other member of the group, the first shared space display area being configured to receive a drop of a file icon and further being configured to, responsive to the drop of the file icon in the first shared space display area, cause the file icon to become visible in a different

graphical user interface associated with the at least one other member of the group wherein a shared file associated with the file icon may be retrieved by selecting file icon (fig. 2; [0031][0032][0079]: a first shared space display area 200 of fig. 2, for a first member 202 and another member 201 of the group, and receiving a drop of a file icon, such as "MacsBug", from desktop of the first shared space into a file sharing window 203 to be shared so that the dropped file icon become visible in a different window/GUI 203).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson, Block and Aboulhossn, to include: *a first shared space display area for a first member of a group and at least one other member of the group, the first shared space display area being configured to receive a drop of a file icon and further being configured to, responsive to the drop of the file icon in the first shared space display area, cause the file icon to become visible in a different graphical user interface associated with the at least one other member of the group wherein a shared file associated with the file icon may be retrieved by selecting file icon*, for the purpose of providing Pearson, Block, and Aboulhossn with the benefit of moving files intuitively and conveniently in different locations, as taught in Riddle.

Pearson further teaches:

Claim 16. The graphical user interface as in claim 15, wherein the computer network comprises a peer-to-peer network ([0027]: peer-to-peer network).

3. Claims 17 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson, in view of Block and Aboulhosn.

Claim 17.

Pearson expressly teaches:

A method comprising:

displaying to a first user via a first user display a group folder object having associated therewith a first selectable task for forming a group (fig. 9.; [0008][0011][0051]:

displaying a group folder to a first user having associated with a task, which correspond to a list of group members where a user-selected file is stored);

displaying a second selectable indicator that is selectable to select between a first mode in which files from a group space associated with the group are copied to the computing device associated with the at least one other user in response to a demand for the files from the at least one other user (fig. 36; [0049][0061]: a transfer view/first mode where files associated with the group are copied or transferred from the source host computer

to the requesting host computer, which is the computing device of other user, according to the request of down-loading files from the requesting host computer), and a second mode in which files from the group space are automatically copied to the computing device associated with the at least one other user in response to the files being added to the group space (fig. 9; [0049][0051]-[0053]: a sharing view/second mode where in response to the files being added to the group space to share in the shared file pane 374 in fig. 9, those added files are appeared on the computing device of other users to see those files available for sharing).

Pearson fails to disclose:

transmitting a request to join the group by sending a communication over a network to a computing device associated with at least one other user to initiate a group communication session between the first user and the at least one other user; receiving from the computing device associated with the at least one other user a response to the request, the response including a unique numeric identifier associated with the at least one other user; displaying a first selectable indicator for visually presenting a group member list to the first user, the group member list including an indication field of a role for each of the members in the group member list.

Block expressly teaches:

transmitting a request to join the group by sending a communication over a network to a computing device associated with at least one other user to initiate a group communication session between the first user and the at least one other user (fig. 21; [0154][0155]: sending an invitation to join the group from a first user, such as owner, to a second user to initiate a group communication between the first user and the second user);

receiving from the computing device associated with the at least one other user a response to the request, the response including a unique numeric identifier associated with the at least one other user (fig. 23; [0157]: receiving information in response to an invitation by means of tracking the response with numeric number for each invitee);

displaying a first selectable indicator for visually presenting a group member list to the first user, the group member list including an indication field of a role for each of the members in the group member list (figs. 8 & 10; [0132]-[0135]: displaying a group member's list including specified roles).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson, to include:

transmitting a request to join the group by sending a communication over a network to a computing device associated with at least one other user to initiate a group communication session between the first user and the at least one other user;

receiving from the computing device associated with the at least one other user a response to the request, the response including a unique numeric identifier associated

with the at least one other user; displaying a first selectable indicator for visually presenting a group member list to the first user, the group member list including an indication field of a role for each of the members in the group member list, for the purpose of providing Pearson with the benefit of overcoming the concerns of privacy and security in the level of sharing, as taught in Block.

Pearson and Block fail to disclose:

the list of group members includes an indicia reflecting for each member of the group whether the member of the group is currently connected to the network.

Aboulhosn expressly teaches:

the list of group members includes an indicia reflecting for each member of the group whether the member of the group is currently connected to the network ([0015]: a list of group members including notification whether the group member is currently online).

Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system, disclosed in Pearson and Block, to include: *the list of group members includes an indicia reflecting for each member of the group whether the member of the group is currently connected to the network*, for the purpose of providing Pearson and Block with the benefit of getting up-to-date information on the connectivity in a file sharing system, as taught in Aboulhosn.

Pearson further teaches:

Claim 20. The method according to claim 17, wherein the network comprises a peer-to-peer network ([0027]).

Claim 21. The method as in claim 17, further comprising receiving an input selecting between the first mode and the second mode (fig. 9; [0049]: selecting between the transfer view/first mode and the sharing view/second mode).

4. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson in view of Block, Aboulhosn, and Bonura.

As indicated in the above rejection, Pearson in view of Block and Aboulhosn discloses every limitation of Claim 17.

Pearson in view of Block, Aboulhosn, and Bonura further teaches substantially similar subject matter as indicated in Claim 1:

Claim 22. The method as in claim 17, further comprising displaying an indication of a file added to the group space by the first user, the indication of the file being displayed with a new content indicator that indicates that the file was added or modified within a

predetermined period of time (col. 6 lines 1-28: indication of file changing as a new content by means of changing to opaque status).

5. Claims 3, 4, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson in view of Block, Aboulhosen and Bonura, and further in view of Riddle.

Claims 3 and 4:

As indicated in the above rejection, Pearson in view of Block, Aboulhosen and Bonura discloses every limitation of Claim 1.

Pearson and Block, Aboulhosen in view of Riddle expressly disclose substantially similar subject matter as indicated Claim 15:

Claim 3. the computer storage medium as in claim 1, wherein the at least one task comprises a first computer file system task usable to perform a drag and drop operation with respect to files located in the first display area (fig. 2; [0079]: performing a drag and drop operation with respect to files in a GUI window).

Claim 4. the computer storage medium as in claim 1, wherein the at least one task comprises a first computer file system task usable to perform at least one of a copy, cut,

paste or edit operation with respect to files located in the first display area ([0031][0032]: performing a copy operation with respect to files in a GUI window)..

Claims 23 and 24:

Pearson and Block, Aboulhosen, in view of Bonura further teaches substantially similar subject matter as indicated in Claim 1:

Claim 23. The computer storage medium as in claim 15, wherein the graphical user interface further comprises an indication of new content, wherein new content comprises files added or changed within a predetermined period of time (col. 2 lines 1-23; col. 6 lines 1-28: indicating an opaque status when file content is changed within a predetermined period of time).

Claim 24. The computer storage medium as in claim 23, wherein the graphical user interface further comprises a second control allowing selection of the predetermined period of time (col. 6 lines 13-28: user's set-up of the value of the time period).

Response to Arguments

6. Applicant's arguments against the rejections based on 35 U.S.C. 103 with respect to Claims 1-8, 10-12, 15-16, and 23-24 have been considered but are moot in view of the new grounds of rejection.

7. Applicant's arguments against the rejections based on 35 U.S.C. § 103 with respect to Claims 17 and 20-22 have been considered, but they are not persuasive.

Applicant argues that Pearson fails to disclose:

displaying a second selectable indicator that is selectable to select between a first mode in which files from a group space associated with the group are copied to the computing device associated with the at least one other user in response to a demand for the files from the at least one other user and a second mode in which files from the group space are automatically copied to the computing device associated with the at least one other user in response to the files being added to the group space.

The examiner disagrees.

As indicated in the above rejection for Claim 17, Pearson expressly teaches that a user is able to select a transfer view, as a first mode recited in Claim 17, that files associated with the group are copied or transferred from the source host computer to the requesting host computer, which is the computing device of other user, according to the request of down-loading files from the requesting host computer (see fig. 36;

[0049][0061]). Further more, Pearson teaches that the user can select a sharing view, as a second mode, where in response to the files being added to the group space to share in the shared file pane 374 in fig. 9, those added files are to be appeared on the other user's computer so that they are able to see the added files available for sharing (see fig. 9; [0049][0051]-[0053]).

Accrodingly, Pearson clearly teaches:

displaying a second selectable indicator that is selectable to select between a first mode in which files from a group space associated with the group are copied to the computing device associated with the at least one other user in response to a demand for the files from the at least one other user and a second mode in which files from the group space are automatically copied to the computing device associated with the at least one other user in response to the files being added to the group space.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAEHO D. SONG whose telephone number is (571)272-7524. The examiner can normally be reached on Mon-Fri 9:30-6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boris Pesin can be reached on (571)272-4070. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daeho D Song/

Examiner, Art Unit 2172